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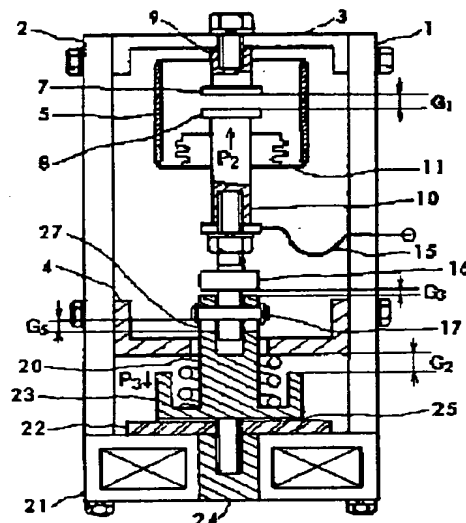
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APPLICANT : HITACHI LTD;

INVENTOR : SHIMAZAKI FUMIAKI;

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TITLE : VACUUM CONTACTOR



ABSTRACT : PURPOSE: To improve a mechanical durable life of an interrupter by specifying a relation among the gap between both contacting elements in the movable side and in the fixed side, the gap between stoppers in an operational part, and an idleness in the operation direction of a joining part.

CONSTITUTION: In a vacuum interrupter 5, a fixed side terminal 9 is fixed by a fixing metal fitting 3 and a sagging conductor 5 and a joining metal fitting 16 are fastened and fixed in a movable contacting element 8. The contacting element 8 and a fixed contacting element 7 are kept from each other by a gap  $G_1$ . Also, a stopper 23 and a fixing metal fitting 4 are kept from each other by a gap  $G_2$  and the stopper 23 receives power  $P_3$  downward between the fixing metal fitting 4 and it by a returning spring 20. There is a step in the stopper side 23 of the joining metal fitting 16 and there is idleness  $G_3$  between the step part and the stopper 23 in the open pole state. The gaps  $G_1$ ,  $G_2$ , and  $G_3$  have a relation among them;  $G_2 > G_1 > (G_2 - G_3)$ . Consequently, since the working impact affecting the spring 20 is not transmitted to a container of the interrupter 5, the container is prevented from being damaged and the usable life of the interrupter 5 is extended.

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